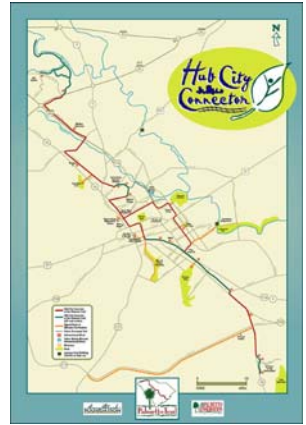


Commuting Options/Multi-Modal Transportation

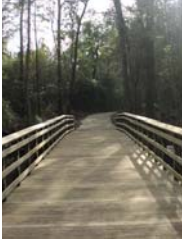
Spartanburg County

"The Hub City Connector is a 12-mile path of greenways, bicycle lanes and safe, signed sidewalks through the heart of Spartanburg. As a local passage of the Palmetto Trail, the state's Mountains to the Sea Trail, it serves as the spine for Spartanburg's growing network of parks, trails and bike lanes. The Hub City Connector will be a continuous pathway of greenways, bicycle lanes and safe, signed sidewalks. One 2-mile section will be an urban rail-trail on a former Norfolk Southern railway along Pine Street. Another section will amble along the banks of the Chiquapin Creek. Other parts of the path will provide safe routes for students who walk to downtown elementary schools. With construction already completed at the School for the Deaf and Blind, USC Upstate, Wofford College and Spartanburg Regional, the trail is part of a coordinated, citywide effort to provide bicycle and pedestrian access to "hubs" such as neighborhoods, elementary schools, libraries, colleges and downtown shops. Many partners are coming together to make this project a reality. Major funding for the Hub City Connector has been provided by the Mary Black Foundation."

For more information visit: <http://hubcityconnector.org/>.



Map of the paths that make up the Hub City Connector.



A completed section of the Waccamaw Neck Bikeway.

Georgetown County

"The Waccamaw Neck Bikeway has been approved by the Georgetown County Planning Commission, and Georgetown County Council has assumed responsibility for contract supervision, liability and long-term maintenance of the proposed 27-mile, hard-surfaced multipurpose path connecting Murrells Inlet to Georgetown. The trail is officially under the jurisdiction of the Georgetown County Department of Public Services. Ongoing fundraising efforts through sponsored benefits (golf tournaments, dances, concerts, auctions, ice cream socials, and home tours), private solicitations, and grant proposals to SCDOT, SC Department of Commerce, SCPRT, Georgetown County Accommodations Tax, and Land Bank Commission have raised more than \$1,000,000. To date 10 of the 27 miles have been completed, and about \$1.3 million in funding has been raised!"

For more information visit: <http://www.biketheneck.com/>



A very excited group of fourth grade students at Ehrhardt Elementary School are accompanied by their teachers, Mrs. Alicia James and Mrs. Laurine Varnadoe. The students will be honored as the first place winners of a contest to help determine a name and image for the newest coordinated transit system in South Carolina.

Bamberg County

The Bamberg County Handy Ride transportation system was introduced on Monday, May 1, 2006. The system will team with the already successful Allendale Scooter to identify empty seats on existing agency vehicles from Bamberg and Allendale counties, which will be made available to the general public through reasonably priced tickets. Funding for the system has come from various sources such as Bamberg County, the James E. Clyburn Transportation Center at SC State University, and the South Carolina Department of Mass Transit. For more details about the Bamberg County Handy Ride <http://www.go-tasc.org/news.html>.



Health Impacts/Lifestyle



Students from Crossroads Middle School standing in front of the winning poster design.

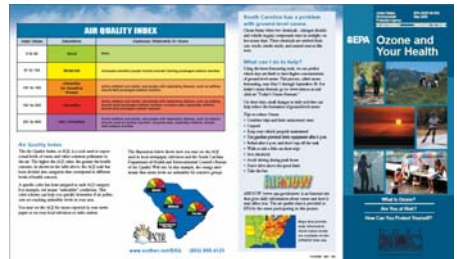
School District 5 of Lexington and Richland Counties

Crossroads Middle School's new B2@ school (Breathe Better Air at School) program's main focus is reducing air pollution around school campuses so everyone can breathe better. The school has "No Idling" signs around the campus were purchased as a result of winning a \$750.00 "Champions of the Environment" award. B2@ school received the Children's Environmental Health Recognition Award for 2006. The number of visits to the office for asthma incidences at Crossroads Middle School has decreased since the implementation of the "No Idling" policy. Solutions to reduce air pollution are made possible through the efforts of students, faculty, staff, community and local agencies. For more information please contact: Amy Curran, Environmental Educator, 803-898-4297, curranaa@dhec.sc.gov



Statewide

Counties throughout the state have subscribed to Enviroflash, a new program sponsored by the EPA with State and local air quality agencies. EnviroFlash gives you instant information that you can customize for your own needs. You can choose to get the forecast everyday or only on forecasted Ozone Action Days. Air quality information allows you and your staff to adjust your lifestyles when necessary on unhealthy air quality days. To sign up for Enviroflash please visit: <https://enviroflash.epa.gov/airnow/subscriber/start.do>



SCDHEC's Ozone and Your Health Brochure details the Air Quality Index.



July 16, 2005. Children enjoying walking over the new Arthur Ravenel Jr. Bridge

Berkeley-Charleston-Dorchester Council Of Governments

In 2003, the Berkeley-Charleston-Dorchester Council of Governments (BCDCOG) received a five-year \$200,000 Active Living by Design (ALBD) grant from the Robert Wood Johnson Foundation to support "Lowcountry Connections," a local healthcare and community partnership that includes the bicycle and pedestrian advocacy group Charleston Moves, SCDHEC, the South Carolina Department of Transportation, Roper St. Francis Healthcare, and the Medical University of South Carolina. ALBD is a national program established to create, enhance and promote environments that make it safe and convenient for people to be more physically active.

"Community design and limited transportation choice often prevent people from leading physically active lives," said Richard Killingsworth, director of Active Living by Design. "The Lowcountry Community Connections grant supports an innovative partnership that will create places, programs, and policies that make physical activity something everyone can access and enjoy."



Early Action Compact Success Stories

A small sample of air quality initiatives taking place in a community near you.

One Small Step for Counties...

Air Quality Displays

SCDHEC is happy to provide counties with awareness materials to display and distribute in publicly accessible locations. Posters, flyers, brochures, and other awareness materials are readily available from SCDHEC for these displays. These items can be requested and shipped, picked up at the main office or arrangements can be made to have items shipped to a regional Environmental Quality Control office. Many awareness items can also be downloaded from the internet at www.scdhec.gov/eqc/baq/

Aiken, Anderson, Greenville, Richland and Charleston

Counties have all created public displays to help educate citizens on what they can do to improve Air Quality!

Participation in Earth Day

In celebration of Earth Day 2006, teachers and media specialists registered to have SCDHEC staff visit their classroom and view SCDHEC's Emmy Award winning Earth Today video with students. SCDHEC staff assisted with a follow-up question and answer segment on how students can help protect the environment. Volunteers at schools in **Anderson, Pickens, Spartanburg, Chester, York, Lancaster, Richland, Lexington, Chesterfield, Aiken, Horry, Charleston, and Jasper** Counties helped SCDHEC staff reach over 5000 students with the Earth Today message.



SCDHEC Earth Day poster.

Utilizing the Media

SCDHEC has helped produce Public Service Announcements for **Greenville, Lexington, Anderson, Spartanburg, Richland, York, Kershaw and Abbeville** Counties as well as the **Appalachian, Catawba and Central Midlands** Council of Governments.

In **Cherokee** County the local newspaper agreed to publish daily ozone forecasts and monthly ozone awareness reports during the ozone season.

In **Sumter** County a week of 2 minute radio programs were aired discussing ground level ozone and strategies to reduce it.

Georgetown County placed two newspaper ads in local newspapers to encourage citizens to drive less, drive smart and save energy.



Left: Good Up High Bad Nearby poster. Right: Learn What Not to Burn flyer.

Paycheck Awareness

Many counties have been distributing Ozone Awareness materials with employee paychecks to ensure they reach every employee. This strategy for distribution is inexpensive and effective, so it has really caught on! Paycheck awareness materials have been distributed by **Saluda, Greenville, Richland, Laurens, Marion, Lexington, Chester, York, Georgetown and Abbeville** Counties.

In addition **Charleston** County contracted, at no cost, with the Commissioners of Public Works, to distribute informational flyers with utility bills to 95,000 local water utility customers in March of 2005. The back page of the flyer comprised an explanation of ground-level ozone, and tips to reduce air pollution.



Awareness Materials

Posters, flyers, brochures, coloring books, activity sheets, pens, bookmarks, pencils, Public Service Announcements and other awareness materials are available from SCDHEC by request. Many of these materials are also available digitally online at the Bureau of Air Quality website.

In 2005 all counties were sent outreach materials, but some ambitious EAC Areas requested additional outreach materials.

South Carolina EXPRESS

Bureau of Air Quality

11,059 miles
11,769 pounds
\$7,000
\$20,000
PRICELESS

(For some things there's money. For everything you have to breathe.)

Sharing a ride can save you money and help "Spare the Air." See reverse side of this card for more information.

Example of a paycheck flyer front and back.

April 1 - September 30 is "Ozone Season"

During Ozone Season conditions are present for the development of high concentrations of ground-level ozone. Beginning May 1, the Bureau of Air Quality will begin monitoring air quality forecasts. On the back of the card when ground-level ozone concentrations are high. When there is a lot of ground-level ozone in the air, everyone, especially people with respiratory illnesses like asthma, may experience breathing trouble.

Did You Know:

- That cars and trucks contribute to over half of all air pollution in South Carolina?
- That a lot of ground-level ozone in the air can trigger asthma attacks?
- That asthma is the leading cause of emergency room visits for young children?
- That ozone can be SO2 and SO3? (It's high the ozone pollution we know the sun, but even low it may harm our lungs. "Phenomenon" ozone is "Good Up High, Bad Nearby".)
- That you can help prevent air pollution?
- That Gov. Hodges has proclaimed May 1 - 7 as "Ozone Awareness Week"?

This message is being brought to you by the South Carolina Department of Health and Environmental Control's Bureau of Air Quality. For more information regarding air quality, ozone season, and ozone-breathing please see the back of this card at www.scdhec.gov/eqc/baq/

Air Quality Improvement Policy

Many counties have developed policies or ordinances to help improve local air quality including **Anderson, Greenville, Lexington, Richland, Spartanburg, Charleston, Oconee, Pickens, Marion, Barnwell and Berkeley**. Examples of Model Ordinances can be found at: <http://www.scdhec.gov/eqc/baq/html/ModelOrd.htm>



County/COG	Item	Number
Chester	Spare the Air - paycheck inclusions	250
	Ozone and Your Health	50
	Ozone and Your Health	200
	Learn Before You Burn	200
	Coloring Books - Spare the Air	100
	Pencils	150
	PDF of Display	1
	Air PSA	1
	Learn Before You Burn	200
	Air is Everywhere Posters	5
Charleston	Air PSA	6
	Air PSA	1
	Air PSA	1
	Air PSA	1
	Air PSA	1
	Air PSA	1
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Georgetown	Air PSA	1
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Abbeville	Air PSA	1
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Allendale	Ozone and Your Health	200
	Learn Before You Burn	500
	Get On Exchange Brochures	100
	Ozone and Your Health	100
	Coloring Books - Spare the Air	450
	CO2 Brochures	150
	Driving Smarter	450
	Learn Before You Burn	150
	Learn Before You Burn	100
	Spanish	
Pickens	Pencils	1 Box (500)
	Notepads	25
	Pencils	25
	Air Fresheners	25
	Ozone Posters	25
	Care About Air coloring books	25

...One Giant Leap for Air Quality!

Alternative Fuels



"IdleAire provides electrical service for each parking space. The heating, cooling, and ventilation unit is connected to the service delivery module via a hose, which also houses the delivery mechanisms for the communications and entertainment packages. All TSE services are independently controlled by each driver." Credit: IdleAire Technologies Corporation

Anderson County

"South Carolina's first Truck Stop Electrification (TSE) site opened in October 2004 at the Anderson Auto Truck Plaza in Anderson County, off Interstate 85 at Highway 81. A U.S. Department of Energy grant was combined with private funding to install IdleAire Technologies Corporation's Truck Stop Electrification at 159 truck parking spaces along the I-85 corridor in South Carolina, North Carolina, and Georgia. Each TSE location is expected to remove more than 1,600 tonnes of emissions annually." http://www.eere.energy.gov/state_energy_program/project_brief_detail.cfm/bp_id=849



French Fry One.

Dorchester County

Dorchester County owns a 1995 Chevrolet Suburban known as French Fry One because it was converted to run on used cooking oil. The conversion kit cost \$1500. The suburban runs on diesel until the cooking oil is heated to 190 degrees Fahrenheit. The performance is about the same using either fuel, but cooking oil does not emit sulfur, benzene or other pollutants that come from diesel fuel. French Fry One will be utilized as a teaching vehicle for the Recycling Director of Public Works, Carolyn Tomlinson.



CMRTA bus filling up on Natural Gas.

Richland and Lexington County

"The CMRTA currently operates seven CNG buses. The remaining vehicles operated by the CMRTA use new technology-clean diesel. The use of CNG as an alternative fuel reduces vehicle emissions substantially. CNG vehicles generate fewer exhaust and greenhouse gas emissions than their gasoline- or diesel-powered counterparts. The relative cleanliness of the fuel also means that maintenance can be extended from 3,500 miles to over 6,000 miles. It generally costs less than gasoline at the pumps, and is available on a limited basis for refueling in South Carolina."

<http://www.gocmrta.com/cleanair.asp>

The Midlands

The University of South Carolina (USC) Shuttle and Vehicle Management have been using biodiesel (B20) in its buses since late 2002. Several departments have begun to use light duty electric vehicles instead of larger, gasoline powered vehicles. These vehicles are used primarily to service the "core" of campus. Use of these light duty vehicles not only improves air quality, but protects the landscaped areas and brick walkways that the vehicles must cross.

USC Housing currently uses three Neighborhood Electric Vehicles called Global Electric Motors (GEM) cars. The GEM is an electric vehicle that travels up to 25 mph and is street legal. It is small enough to go nearly anywhere on campus. The GEM is a Zero Emission Vehicle (ZEV). The operating costs can be as low as one cent per mile to operate while a conventional vehicle can cost as much as ten cents per mile to operate. GEMs save the University thousands of dollars each year. More information is available at <http://www.housing.sc.edu/AFV.asp> and <http://www.sc.edu/vmps/AFV.html>.



One of USC's GEM cars.

Energy Conservation

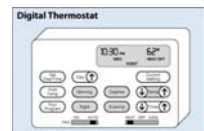
Chester County

Energy Audits were performed at several county properties. Programmable thermostats were then installed at Great Falls War Memorial Building, Great Falls Library, and Richburg Library.



Darlington County

To lead by example in energy use reduction, Darlington County recently installed "all out" light switches on each floor of the courthouse. These switches were installed beside each elevator door. The last person leaving a floor is asked to cut off all the lights as they leave.



A programmable thermostat offers a lot of flexibility in its temperature settings.

www.eere.energy.gov/fundex.cfm?mytopic=12720

Pickens County

Pickens School District installed energy saving lighting retrofits and Energy Management Control Systems (AMCS) for the HVAC systems in their 15 elementary schools, five middle schools and three high schools. Annual energy savings for the lighting retrofits alone are expected to exceed \$72,500. This project won Pickens School District the **Energy Project of the Year award** selected by The Association of South Carolina Energy Managers (ASCEM). <http://www.pickens.k12.sc.us/inthenews/0506Releases/EnergyProjectoftheYear.pdf>



Federal Facilities in SC Are Conserving Energy

Fort Jackson's Energy Star programs include electronic devices and appliances as well as a Green Procurement program. Energy efficiency retrofit programs include converting traffic lights to LED, installing geothermal HVAC systems in 1275 family housing units, a central energy plant cooling system, and demand limiting control systems. Fort Jackson will implement \$20mm of energy conservation projects within 3 years beginning Fiscal Year 2007.

Naval Weapons Station Charleston's goal is to reduce energy consumption by 2% per year through 2010. New and replacement appliances are required to be Energy Star certified. Energy retro fits have included installation of: programmable thermostats, low water use toilets and showers, electronic ballasted fluorescent fixtures, interior storm windows, replacement of old AC units, vending machine motion sensors, re-lamping incandescent lights fixtures with fluorescent lamps, and adding ceiling insulation. Lighting, HVAC, controls, motors, windows and water fixtures have been retrofitted in 53 buildings and the government plans to retrofit an additional 72 buildings.

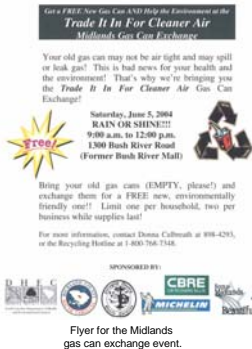
Shaw AFB, operating under the GSA Area Wide Utilities Energy Services Contract (UESC) and through its partnership with Energy Systems Group (ESG), has established a successful program to address energy reduction and operations improvements to over 158 buildings and more than 1.9 million square feet of facilities without impacting existing budgets and base operations. In 2001, ESG was selected to design and implement energy efficiency upgrades to base facilities and infrastructure through lighting improvements, HVAC enhancements, steam system and boiler upgrades. This first phase of work provided over \$500,000 in annual energy savings that: financed the entire project, improved energy security and efficiency, reduced both energy and O&M costs, and established a comprehensive strategy that addressed future energy and equipment needs. In December 2005, Shaw AFB and ESG proceeded with its next phase of energy conservation work by implementing new lighting technologies and major mechanical system upgrades that will provide an additional \$200,000+ in annual energy savings. This current phase of work is scheduled to be completed in September 2006.

Gas Can Exchange

Greenville County conducted a gas can exchange in June of 2003, 115 old gas cans were exchanged for new environmentally safe cans.

Lexington County co-sponsored two gas can exchange events, with **Richland** County and SCDHEC, located at the former Bush River Mall and at the Sandhills Research/Education Center. The events were held in June and October of 2004 respectively. A total of 290 old gas cans were exchanged for new environmentally safe cans.

Chester County sponsored an Ozone Awareness booth in October of 2003, in cooperation with SCDHEC at the Hilltop Festival. Information, two environmentally friendly gas cans, pencils, coloring books, t-shirts and flowering plants were distributed.



Flyer for the Midlands gas can exchange event.

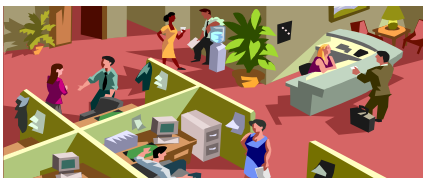
Start With Staff

Georgetown County includes information on air quality and the county's no idling policy during New Employee Orientation which takes place once a quarter.

Calhoun County Public Works employees have changed their working hours from 8:00am – 5:00pm to 7:00am – 4:00 pm, to get an early start on outdoor activities. Landscaping activities with small engine use, outdoor activities such as mowing and motorized construction, will all be done before 12:00pm. **Lee** County Public Works delays cutting grass until 6 pm on Ozone Action Days. **Marion** County reschedules mowing times whenever possible and **Laurens** County staff has been instructed to minimize mowing and motorized construction activities on Ozone Action Days.

Edgefield County Roads and Bridges has purchased a new dump truck, motor grader and front-end loader which are more fuel efficient.

Oconee County implemented a four day work week from October 2005 to May 2006 to save on energy consumption. According to the county's finance department the conservation plan helped to significantly reduce the county's projected budget deficit.



Berkeley-Charleston-Dorchester Council Of Governments

The Environmental Protection Agency awarded the Berkeley-Charleston- Dorchester Council of Governments a \$25,000 grant to address environmental health threats to older persons. This grant will help educate older adults about environmental health issues; train older adults to be environmental stewards in their communities; foster projects that address environmental risks; and enhance environmental health and quality of life through smart growth strategies targeting improved air and water quality. The grant is part of EPA's larger effort to protect the health of older adults, who may be more susceptible to environmental hazards, through its Aging Initiative and through its Smart Growth Program on Aging Initiatives.

As the regional planning agency and metropolitan planning organization (MPO), the BCD Council of Governments' Age-Friendly Community Project will work with older adults to demonstrate how smart growth activities can be incorporated into the communities to improve the quality of life; the project will hold training workshops throughout the region which will give participants the opportunity to create a vision for their communities using smart growth strategies. Without Smart Growth initiatives, such as providing decreasing vehicle trips or providing a range of transportation choices and housing types, seniors will become more vulnerable to environmental hazards; they will also become more isolated in communities that do not have adequate walkability and accessibility. Learning the tools and strategies for more sustainable development patterns will also encourage older adults and retirees to become environmental leaders in their community and get involved in planning and development issues that will make a difference where they live. While the project will target older adults, others will be invited to attend to create intergenerational learning opportunities and linkages. For more information, contact Senior Planner Vonie Gilreath at vonieg@bcdcog.com.

PSAs and Videos



PSAs and Videos are available at:
<http://www.scdhec.gov/eqc/outreach/html/animated.html>

Lexington County

PBT Cable agreed to flash ozone awareness fact sheets on their cable access Channel 2. These fact sheets contain the "It All Adds Up to Cleaner Air" logo. This station serves the Gilbert, Pelion, Batesburg-Leesville, Lake Murray area and parts of the Town of Lexington. The Town of Lexington was given SCDHEC Public Service Announcements (PSA's) to air on its local cable access Channel 2 (through Time Warner Cable) in April 2006. The PSA's have not run to date, but are being held to add to the rotation when extra space needs to be filled. The Town's local channel reaches 100,000 residents.



Left: Certified technicians from Pope Davis Tire and Precision Tune. Right: A long line of participants.

Car Care Event

SCDHEC's Bureau of Air Quality, in collaboration with the Early Action Compacts of **Richland** and **Lexington** Counties, sponsored a National Car Care Month (NCCM) event that was held in April of 2006 at the State Museum. NCCM is a campaign to promote awareness of how proper vehicle maintenance can help to reduce air pollution and protect public health. This event included FREE vehicle maintenance checks performed by certified technicians. The partners involved in sponsoring this event also provided printed information, coupons, and FREE tire pressure gauges and other promotional items. Suggestions for improving vehicle safety and gas mileage were also shared.

Event sponsors: Ben Satcher Ford, SCDHEC, Lexington County, Pope Davis Tires, Precision Tune, Richland County, The State Museum

<http://www.scdhec.gov/eqc/baq/html/carcare.html>



Greenville County's Spare the Air banner.

Greenville County

A 27'x 9' "Spare the Air in Greenville County" banner is displayed during ozone season at the Recycling Center located at County Square at the intersection of University Ridge and Church Street in downtown Greenville (SC). Thousands of vehicles travel by this intersection every day.



A residential street in Sumter, SC

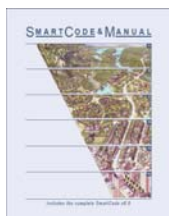
Sumter County

A special project in Sumter County planted 3 dozen large canopy trees in city-county building parking lot to reduce urban heat island effect and serve as an example of how to retrofit existing parking lots for a small amount of money. Since then City of Sumter has become a tree city, and planted an additional 40 canopy trees in 2006. The Sumter City Planning Commission passed an amendment to strengthen commercial development tree protection policy. An arboretum focusing on trees suitable for urban horticulture has been established by the City of Sumter. City, County and private businesses have acquired property containing 150 year old plus live oak trees which is being developed as passive park space.

Tree Cities in the state of South Carolina include Aiken, **Anderson** County, Beaufort, Camden, Charleston, Charleston AFB Cheraw, Chesterfield, **Clemson**, Columbia, Conway, Darlington, **Dillon**, Florence, Georgetown, Greenville, Hartsville, Hilton Head Island, Iva, Lancaster, Lexington, Manning, Marion, **Mauldin**, McClellanville, Mount Pleasant, Mullins, Myrtle Beach, Navy Station Charleston, **North Myrtle Beach**, **Patrick**, Rock Hill, Spartanburg, Summerville, Sumter, **Surfside Beach**, Tega Cay, **Turbeville**, and Winnsboro. Last year Conway, Dillon and Florence earned the Growth Award by completing activities to strengthen their local tree care programs. Highlighted cities have earned the title of "Tree City" within the last 4 years. For more information visit: <http://www.arborday.org/programs/treeCityUSA.cfm>.



Above, the historic marker for the South Carolina Champion Oak, located in Georgetown, SC.

For more information on SmartCode visit <http://www.dpc.com/services.htm>

Catawba Regional Council of Governments

The **Town of Clover** has a one-time opportunity to update its codes before development pressures intensify and, after participating a Catawba Regional COG form-based codes workshop, has chosen to use SmartCode to meet that need. The Clover Planning Commission has been briefed and has received the full SmartCode along with a companion manual, commentary written by the code's authors and supporting documentation. The SmartCode system was developed by Duany PlaterZyberk & Company and is the result of an intensive review regarding the shortcomings of conventional zoning ordinances and codes. The code documentation is distributed as "freeware" and supplemental technical support is available from the planning field's leading experts via an internet listserv.

For more information on urban sprawl from Smart Growth America visit: www.smartgrowthamerica.com/

Greenville County

The City of Greenville was selected by Smart Growth America (SGA) as one of four cities nationwide which would be helped to implement revamped development rules and show others how to curb sprawl. Efforts include spreading the kind of development happening downtown to its more suburban edges including more sidewalks, buildings closer to the street, smaller parking lots and more landscaping. SGA has said about the City of Greenville, "The city has the right idea about how communities should be designed." In 2002 the Greenville-Spartanburg area was ranked the fifth most sprawling metropolitan region in the country, but as a result of the new growth plan there will be less air pollution, less congested traffic and a higher quality of life.

Diesel Retrofits

Statewide

The SC Department of Education won a Clean School Bus USA Grant for \$499,099 to retrofit some buses in South Carolina with diesel oxidation catalysts and crankcase filters, replace some older buses and conduct a biodiesel pilot and an idle-reduction device pilot.

State education superintendent Inez Tenenbaum signed an order on June 20, 2006 to buy 630 new school buses with roughly \$36 million appropriated by the Legislature. These buses should be on South Carolina roads by the end of the year. These new buses will replace vehicles from 1984 and 1985 which are not fuel efficient and produce higher levels of polluted emissions than more modern vehicles.

The benefits from these funding sources will be distributed throughout the state.

The project will install diesel oxidation catalysts on 47 vehicles—including backhoes, bulldozers and others. <http://www.yorktech.com/collegenews/11162005.htm>

York County

"As part of the EPA's National Clean Diesel Campaign, York Technical College and its partners, including the City of Rock Hill, have received a \$95,040 grant to retrofit dozens of publicly-owned non-road vehicles with technology that will significantly reduce their emissions. The project will install diesel oxidation catalysts on 47 vehicles—including backhoes, bulldozers, motor graders and others—from the fleets of the City of Rock Hill, the South Carolina Department of Transportation, and **Chester** County. The reduction in emissions and other important data from the retrofitted equipment will then be carefully documented over the next year. The project, led the Energy Resource Center at York Technical College, will serve to introduce and demonstrate the effectiveness of retrofit technologies, which help reduce harmful pollutants such as the fine particulate matter generated by diesel engines. The use of the diesel oxidation catalysts will reduce particulate matter emissions by approximately 20 percent and hydrocarbons and carbon monoxide by an estimated 50 percent."

<http://www.yorktech.com/collegenews/11162005.htm>

Lexington County

Lexington County has set idling time limits for the county's tri-axle dump trucks. The engine cuts off after the time limit and it easily cranks back up. There is also an override feature in manual engines by pressing the clutch/brake/accelerator to keep the truck idling if needed. This technology is available on all Caterpillar engines (ACERT Technology). Caterpillar ET software is needed to set the idle time. This software costs around \$760, but **the idle time can be set by local Caterpillar dealers**. This software can also be used to change the speed limits, horsepower limits and other settings on the vehicles. It takes less than 5 minutes to set the idle time on each engine.



Lexington County Fleet Services manager using the ET software.



ET software is used to communicate directly with the technology built into the Caterpillar Engine.

Charleston County

"Small Change for Big Change." Related to the Charleston County Transportation Sales Tax (1/2 cent), the Transportation and Greenbelt Advisory Boards have completed public input phases, and released feedback reports. Both boards found a high interest in walking and biking trails. These boards recommend spending plans for the \$1.3 billion to be collected over 25 years for transportation, greenbelt and public transit. In addition, the Charleston Area Regional Transportation Authority (CARTA) has used the first infusion of Sales Tax money to purchase smaller buses for local routes, and has increased the number of routes. Ridership has increased significantly. The CARTA Board now is contracting for park/ride spaces to increase convenience for commuting. Reports can be accessed through the county website: <http://www.smallchange4bigchange.org/>



Bicycle rack in use on a CARTA bus
<http://www.ridecarta.com/>



Charleston County's Comprehensive Greenbelt System
<http://www.smallchange4bigchange.org/>

Palmetto State Clean Fuels Coalition

"In 2005 the South Carolina Energy Office (SCEO) received \$20,000 in federal funds with a cost share of \$27,822 for a total project cost of \$47,822 for a coordinator support grant for the Palmetto State Clean Fuels Coalition (PSCFC). The purpose of this project is to ensure continued coordination and staffing of the PSCFC by the Catawba Regional Council of Governments. Funding will ensure continued momentum in the nine-county PSCFC region for projects, marketing, and increased use of alternative fuel and alternative fuel vehicles. Funding will enable promotion and building of infrastructure to support increasing use of alternative fuels by state and local government in the PSCFC region."

http://www.energy.sc.gov/Transportation/clean_cities.htm



Upstate

Clemson University chemical engineering professor Mark C. Thies has received an \$856,000 award from the Department of Energy (DOE) to develop more efficient processes for the centralized production of hydrogen by splitting water. The award was one of only three made nationwide under DOE's Nuclear Hydrogen initiative. In addition to Thies, the project team includes fellow Clemson David Bruce, John O'Connell from the University of Virginia and Max Gorenssek from Savannah River National Lab. The Clemson team will interact not only with U. S. engineers and scientists but also with those in France, Italy, and Japan, all of whom have teams working on related processes.



Mark C. Thies
received a DOE award



Clemson University Professor James G. Goodwin, Jr., chair of the Clemson's chemical and biomolecular engineering department, has also received a DOE grant for energy research through DOE's State Technologies Advancement Collaborative. Goodwin's work focuses on the performance of iron-based bimetallic catalysts that are crucial to synthesis of clean fuels, additives and lubricants derived from coal and biomass gasification. Clemson will lead a partnership that includes Louisiana State University, the S.C. State Energy Office, the Louisiana State Energy Office, North Carolina's Research Triangle Institute, Rentech and Sud-Chemie Inc. This grant reflects \$875,499 in DOE-STAC funds and \$294,499 in cost sharing by the industrial and governmental participants.

<http://cworld.clemson.edu/archive/2005/spring05/worldview.htm>



James G. Goodwin
received a DOE award

Saluda County

Farmer James Riddle recently included a number of energy efficiency improvements for his grower houses during the conversion of his farm from a turkey growing facility to a chicken broiler facility. Improvements included better more efficient insulation and ventilation systems, installation of high efficiency fans and water pumps, energy efficient fluorescent lighting, and high technology brooder systems. "The energy improvements from this project are expected to reduce total energy costs by 28% and reduce energy cost per thousand pounds of broilers by 47%, from \$5.59 to \$2.98. The total project cost is \$311,284, with riddle paying \$233,463 (75%) from a US Department of Agriculture (USDA) loan. Riddle also received a \$77,821 grant through the USDA Renewable Systems and Energy Efficiency Improvement Program which offers financial assistance to agricultural producers and rural small businesses for the purpose of making energy efficiency improvements."

http://www.energy.sc.gov/Commercial/commercial_index.htm



Committed to the future of rural communities.

<http://www.nurdev.usda.gov/rts/farmbill/>

York County

"York Technical College: Ethanol Refueling Infrastructure: The SCEO received \$25,191 in federal funds with a cost share of \$18,500 for a total project cost of \$43,691 to establish an ethanol (E-85) fueling station in Rock Hill, S.C. to support the use of E-85 in the existing and future fleets of the City of Rock Hill, York County Natural Gas, the City of Clover, Palmetto Clean Fuels Coalition and York Technical College. The E-85 fueling station will be located at the main Rock Hill maintenance facility and will consist of a 12,000 gallon below ground tank converted from an existing unleaded fuel tank. The refueling station will support 59 ethanol flex fuel vehicles currently using gasoline in the fleets of Rock Hill, Palmetto Clean Fuels Coalition, York County Natural Gas Authority, the City of Clover and York Technical College."

http://www.energy.sc.gov/Transportation/clean_cities.htm



Statewide

Since 2003 the All-Health Team has been looking for youth who are making a positive impact on the health of their community. Whether it's a research project, community education project, or health advocacy, the All-Health Team wants to recognize and reward these youth and their leaders for their outstanding work in protecting and promoting health. Each month the All-Health Team partnership reviews all the applications received to date and selects one project for recognition based on originality, clear goals, realistic planning, education and outreach component, and proposed expenditures. Monthly winners receive a one-time award of \$500 to improve and expand their health activities, t-shirts, a thirty second television spot and the opportunity to be named First Team All-Health and win \$5000. At the 2005-2006 All Health Team Reception and Award Ceremony, the **John Ford Middle School of St. Matthews in Calhoun County** took the first place gold award and \$5,000 Tuesday from among seven school-based preventive health projects in the All-Health Team's annual awards competition. The second place silver award of \$3,000 went to the **Olympia Learning Center** team for their Healthy Hands Olympia project, while **Gadsden Elementary School's** Blue Jay Steppers took the third place bronze award and \$2,000 for teaching healthy food choices and promoting the cardiovascular benefits of dancing to step moves. For more information visit:

<http://www.scdhec.gov/health/chcdp/allhealth/tryouts.htm>



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"At International Paper, we believe an important measure of our success is our performance as neighbors, employers and environmental stewards, and for that reason we remain dedicated to making continuous improvement. Each year, we challenge ourselves to achieve results that build on past accomplishments. This goal was realized in 2002 as we made significant progress in areas ranging from community participation to workplace safety to biodiversity. Our focus on continuous improvement goes hand-in-hand with our commitment to sustainability, which ensures International Paper can always supply wood fiber for the products our customers want while ensuring our forestlands will offer clean air and water, diverse wildlife habitat, recreational opportunities and natural beauty for generations to come. Not only do we practice sustainability every day, we support it through partnerships with customers, nonprofit organizations and communities. This is reflected in our embrace of the Sustainable Forestry Initiative (SFI) Standard." -

www.InternationalPaper.com



Sponsor of Take a Break from the Exhaust (TABFTE)

The South Carolina Energy Office provides a broad range of resources designed to help citizens, businesses, and public entities save energy, and money through greater efficiency, better information, and enhanced environmental quality. TABFTE is an alternate commuting program which encourages groups and organizations to make alternative choices that help reduce air pollution, such as using mass transit, carpooling and making one trip to run all errands, especially during DHEC's forecasted ozone season, April 1st through September 30th.

www.energy.sc.gov



Sponsors of Environmentally- Friendly Gas Can Exchanges

Since 2004, Duke-Energy, Inc. (www.duke-energy.com) and Spinx Inc. (www.spinxco.com) have provided funding for over 1,000 one or two gallon environmentally-friendly, no-vent, spill-proof, gas cans. These cans have been distributed to S.C. citizens in exchange for old ones to help improve air quality. Old plastic gas cans emit almost 10 pounds of air pollution per year.

